Career Paths for B.Sc. Graduates

# 1. Government Careers

## (a) Civil Services (UPSC, State PCS)

Eligibility: B.Sc. degree (any discipline), age 21–32 years.

Exams: UPSC Civil Services (IAS, IPS, IFS), State Public Service Commissions.

Careers: Administrative Services, Foreign Service, Police Service.

## (b) Banking & Insurance

Eligibility: B.Sc. degree, usually age <30.

Exams: IBPS PO/Clerk, SBI PO/Clerk, RBI Grade B, NABARD, LIC AAO, GIC AO.

Careers: Probationary Officer, Risk Analyst, Insurance Officer.

## (c) Defence Services

Eligibility: B.Sc. degree, physical fitness, age <25–27.

Exams: CDS, AFCAT, INET.

Careers: Officer in Army, Navy, Air Force (technical & ground duties).

## (d) Scientific Organizations

Eligibility: B.Sc. (Physics, Chemistry, Maths, Biology, Environmental Science, etc.).

Exams: ISRO/DRDO recruitment, BARC OCES, ICMR exams.

Careers: Scientist, Research Officer, Lab Analyst.

## (e) Specialized Govt. Jobs

B.Sc. Agriculture → Agriculture Officer, FCI, NABARD.

B.Sc. Nursing → Staff Nurse, Defence Nursing, Govt. Hospitals.

B.Sc. Forestry/Environmental Science → Forest Service (UPSC IFS).

B.Sc. Geology → GSI, ONGC recruitment.

# 2. Corporate / Private Sector Careers

## (a) IT & Data

Eligibility: B.Sc. Computer Science, IT, Statistics, Maths.

Careers: Software Developer, Data Analyst, Cybersecurity Analyst.

Top Companies: TCS, Infosys, Wipro, IBM, Deloitte.

## (b) Life Sciences & Healthcare

Eligibility: B.Sc. Biotechnology, Microbiology, Biochemistry, Zoology.

Careers: Lab Scientist, Clinical Research Associate, Pharma QA/QC.

Top Companies: Biocon, Cipla, Serum Institute.

## (c) Environmental & Applied Sciences

Eligibility: B.Sc. Environmental Science, Agriculture, Forestry.

Careers: Environmental Consultant, Agriculture Officer, Sustainability Analyst.

Companies: Tata Power, NGOs, Govt. Departments.

# 3. Research & Academia

Higher Studies Required: M.Sc. + NET/SET → PhD.

Exams: CSIR NET, UGC NET, GATE (Science), JEST, DBT BET.

Careers: Research Scientist, Assistant Professor, Scientist in Govt. labs (CSIR, ICAR, ICMR).

# 4. Professional Courses after B.Sc.

MBA – CAT, XAT, MAT, GMAT → Business, Consulting, Finance.

MCA – NIMCET, CUET → Software Development.

LLB – 3 years post-B.Sc., LSAT, DU LLB → Corporate Law, IPR.

B.Ed. – Teaching, via state/university entrances.

# 5. Higher Studies Options

M.Sc. Specializations: Physics, Chemistry, Maths, Botany, Zoology, Environmental Science, Geology, Biotechnology, Microbiology, Data Science, AI.

Integrated PhD: IISc, IITs, IISERs (via JAM/JEST).

Abroad: GRE + TOEFL/IELTS → MS in US/Europe.

# 6. Additional Career Options

## Professional Certifications

Data Science (Python, R, Tableau), Cybersecurity (CEH, CISSP), Finance (CFA, FRM), Clinical Research, Bioinformatics.

## Entrepreneurship

Agri-tech, Biotech, EdTech, Data Analytics. Govt. support: Startup India, MSME schemes.

## Competitive Exams (Open to All Graduates)

SSC CGL, SSC CHSL, Railway RRB NTPC/JE, LIC/GIC AO, Teaching (CTET, State TET after B.Ed.).

## International Careers

Public Health (WHO, UN), Environmental Sustainability (UNDP, World Bank), Research & Academia abroad (via GRE/TOEFL/IELTS).

## Non-Traditional Careers

Science Communication & Journalism, Patent Analyst/IPR, Policy & Think Tanks.